

source. Fig. 2 shows an arrangement comprising three pulse generators of the type shown in Fig. 1 all charged in parallel and discharged in series. The folded-back foil 6 is replaced by a single foil 6A. The pulse is initiated by a breakdown of spark gaps at points X. Fig. 5 (not shown) relates to another multiple line circuit.

Fig. 4 shows a pulse generator comprising a pair of strip transmission lines formed by copper sheets 48, 8, 9 separated by a block 42 of polymethylmethacrylate. The lines are charged in parallel from a capacitor 56 charged by a Cockcrott-Walton generator (not shown) discharged into the pulse generator by lowering the sphere 53 so as to break down the spark gap 51, 52. Charging of the lines in parallel causes breakdown of three spark gap devices such as 17, 22 (of the type described in Specification 988,777) so that the lines are discharged in series as described above.

1,087,933. Pulse generating circuits. UNITED KINGDOM ATOMIC ENERGY AUTHORITY. Oct. 5, 1961 (Oct. 10, 1963) No. 39995/03. Addition to 975,911. Heading H3P

A pulse generator comprised two pairs of mutually insulated electrically conducting sheets 31, 33, 31, 33 rolled together to form two pairs of strip transmission lines, on of said pairs being located concentrically within the other and switch means (such as spark gap 26) arranged to discharge one only of each pair of strip transmission lines and generate voltage pulses between the ends of a given sheet of each pair. The two strip transmission lines may be arranged either in series as shown or in parallel as in Figs. 1, 2 (not shown). The inner and outer transmission lines may be wound in opposite directions, or as in Fig. 1 (not shown), in the same direction. The load may be connected via a further spark gap (Fig. 4, not shown) to point 27, the further spark gap being arranged to break down at the peak value of the short-duration triangular shaped, high voltage pulse generated by closing switch 26. Alternatively, the further spark gap in the load circuit may be applied to the pulse generator described in Specification 975,911, having one pair of strip lines.

1,161,347. Pulse generating circuits. UNITED KINGDOM ATOMIC ENERGY AUTHORITY. 2 Oct. 1967 (21 Oct. 1966). No. 47424/66. Heading H3P. (Also in Division H1)

A pulse generator comprises at least one capacitive energy store comprising at least two electrodes 15, 19 having the space between them filled with a polar liquid of high dielectric constant the configurations of said electrodes being such that when a voltage is applied between them a greater electric field

